Super Predictor Of Indian Premier League (IPL)

OVERVIEW:

Since the dawn of the IPL in 2008, it has attracted viewers all around the globe. A high level of uncertainty and last moment nail biters has drawn the fans to watch the matches in large numbers. Within a short period, IPL has become the highest revenue-generating league of cricket. With all this, the amount of data being generated in terms of matches revenue scores, etc has also become huge. Analyzing such vast amounts of data would give great insights in forecasting match results, top scores, and wicket-takers, etc. This project deals with the analysis of the ipl data and solving the given questions and getting the desired result.

PURPOSE:

The main purpose of the project is to get exposure to the data and how to analyze the data. We will get the knowledge of making the dashboard and how to extract the specific information from the dataset. This also pave the way for becoming a data analytics master.

LITERATURE SURVEY:

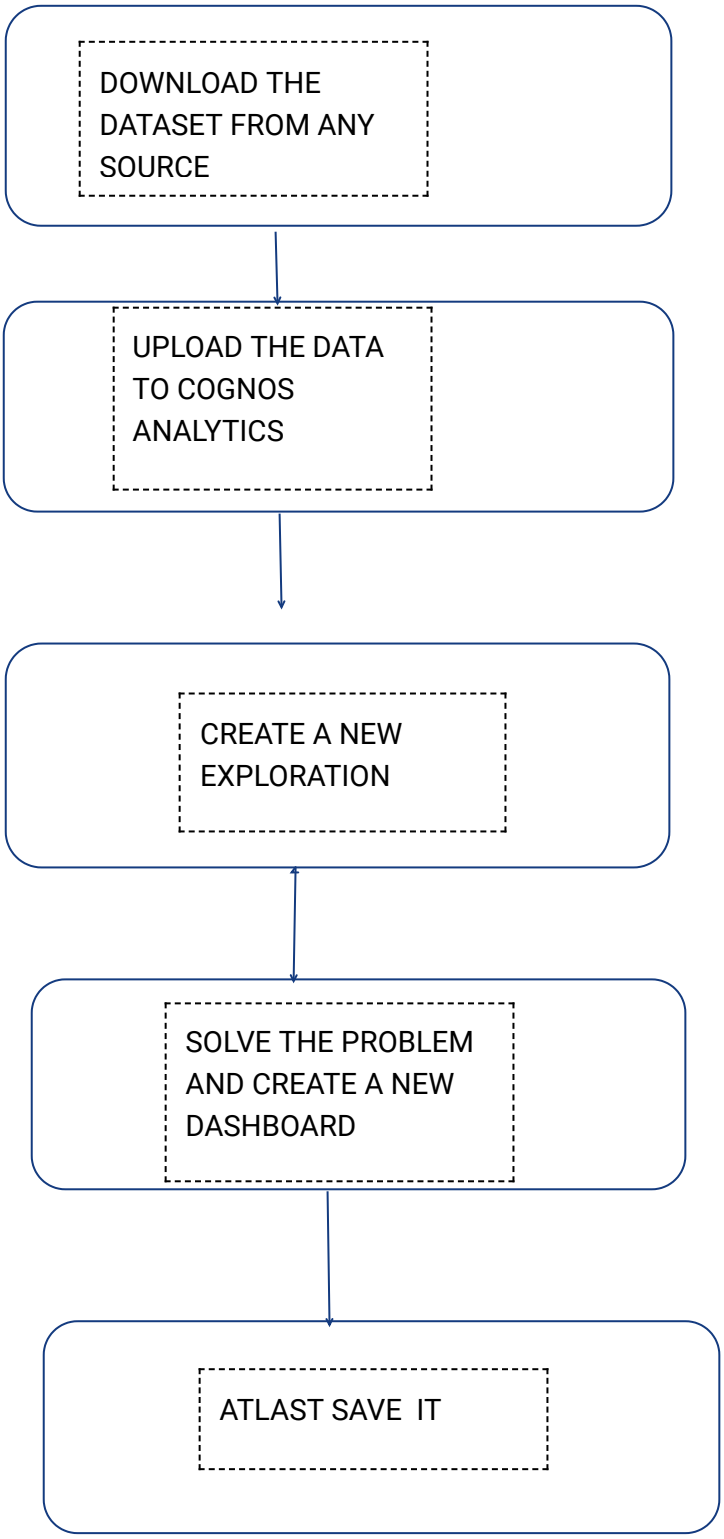
EXISITING PROBLEM:

The 11 problems can be solved by just analyzing the given dataset. And then the required calculation calculation can be created for the given dataset for a specific value to be found . Atlast filtering and the sorting of the data is made .
These methods can be followed to solve the problem.

PROPOSED SOLUTION:

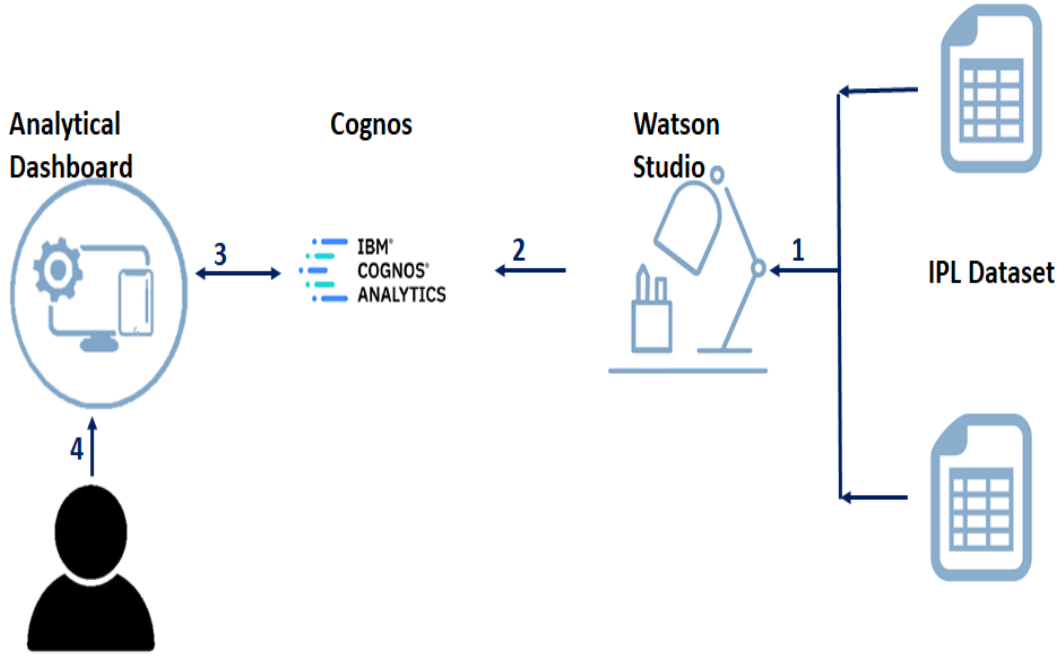
The best method suggested by me is to use the python packages such a pandas which will help us to get the required information from the dataset . Or else instantly we can get the solution for the problem by searching through the internet. There are many tools like microsoft excel and power BI to create dashboard for the data and to analyze it .
These methods suggested by me to solve the problem.

FLOWCHART:


DOWNLOAD THE DATASET FROM ANY SOURCE
UPLOAD THE DATA TO COGNOS ANALYTICS
CREATE A NEW EXPLORATION
SOLVE THE PROBLEM AND CREATE A NEW DASHBOARD
ATLAST SAVE IT

THEORITICAL ANALYSIS:

BLOCK DIAGRAM:



HARDWARE / SOFTWARE DESIGNING:

Desktop or Laptop with a minimum requirement of:
 Processor: Intel Pentium III or later
 Main Memory: 500 MB
 Cache Memory: 512 KB
 Monitor: 14 – Inch Color Monitor
 Keyboard: 108 Keys (Standard Keyboard)
 Mouse: Optical Mouse
 Hard Disk: 160 GB of Disk Space

The software requirements can be:
Any operating system - Windows , MAC OS
Additionally we have to download watson studio

Note : Cognos analytics can be used in online .

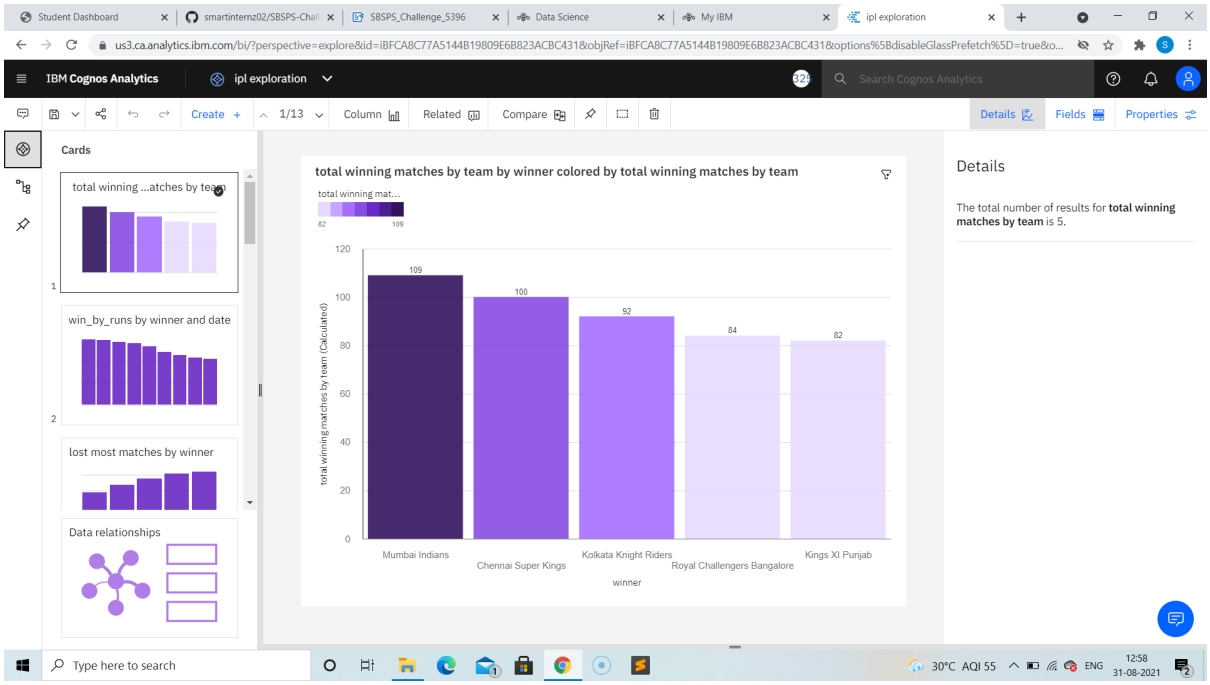
EXPERIMENTAL INVESTIGATIONS:

While working on the problem,
First we have to analyze the problem and find the required columns from the dataset.
Next we have to create a calculated field for that.
Some codes can also be written to get the expected result.
Atlast the fields are created and the graph is chosen for the presentation and it is created.

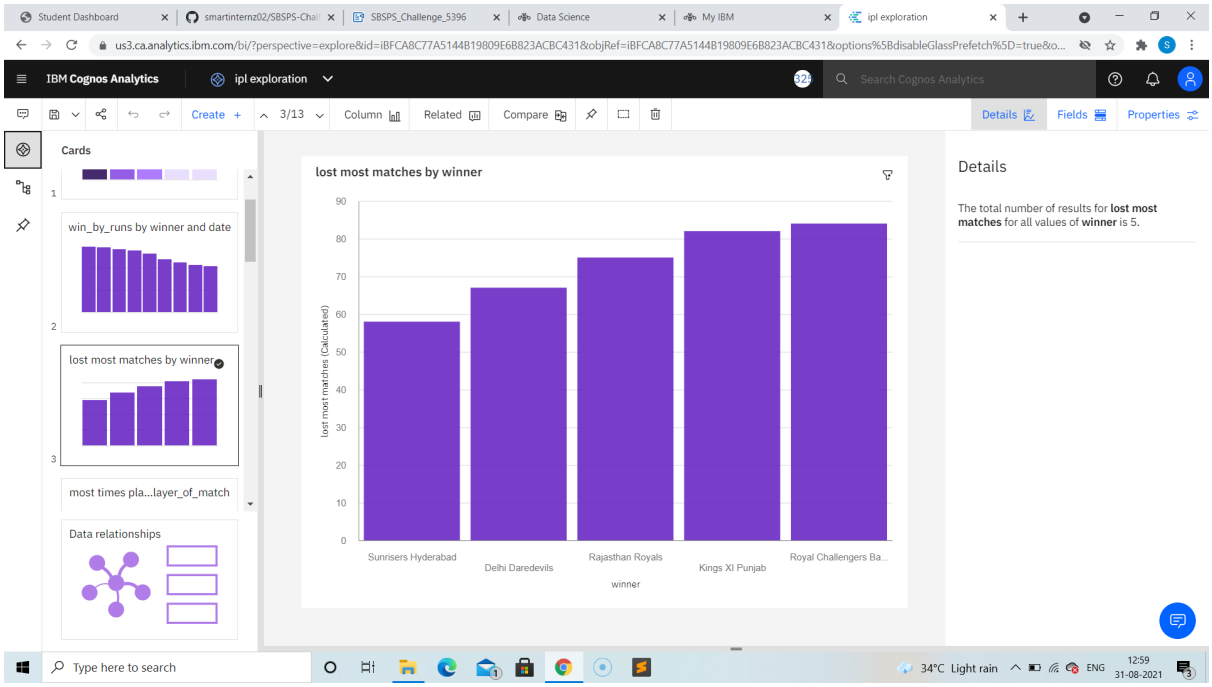
RESULT:

The output of the 11 problem statements are:

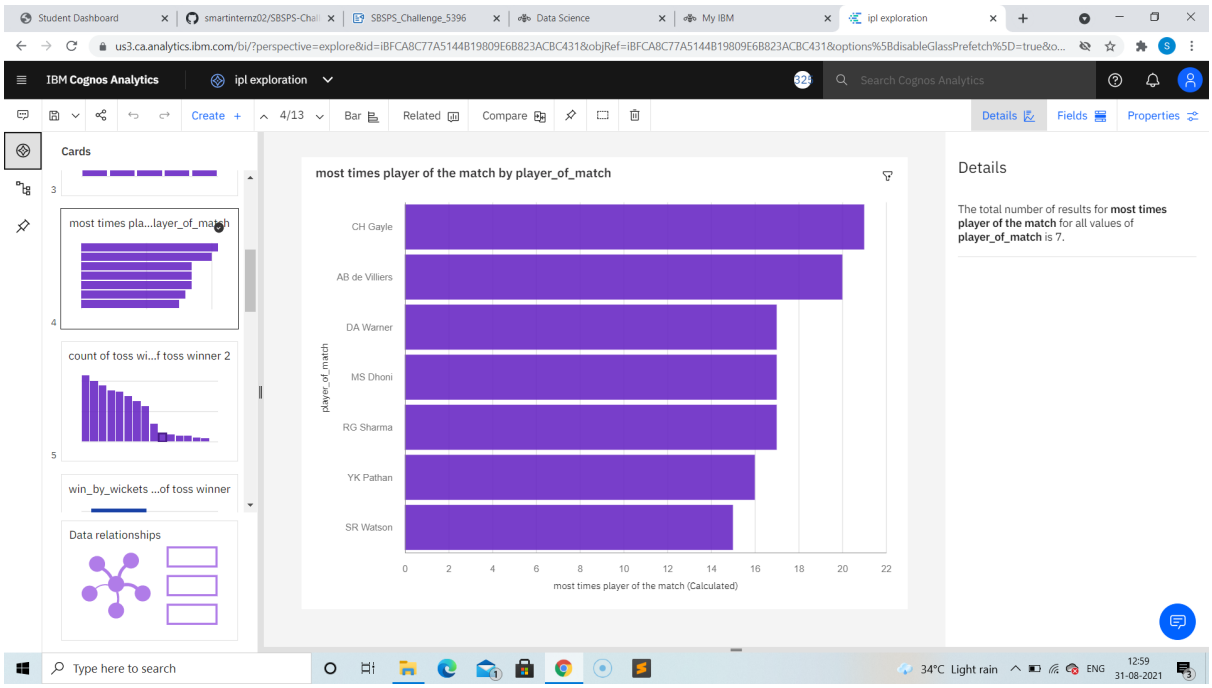
To find the team that won the most number of matches in the entire IPL.



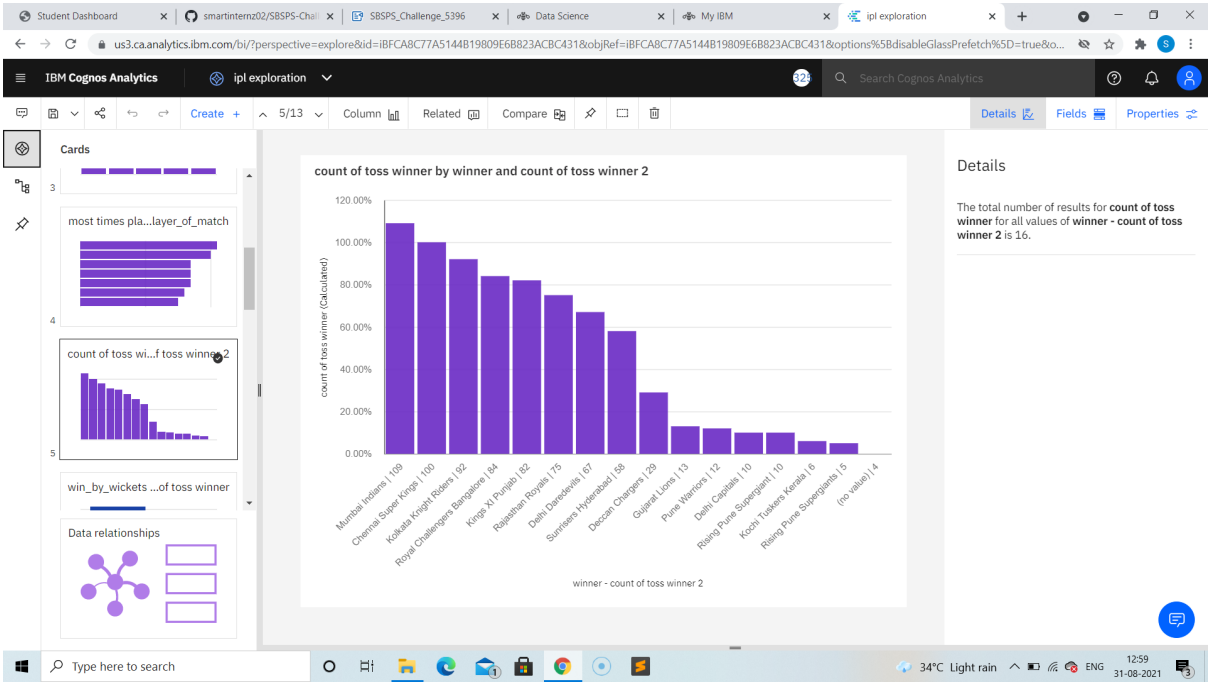
To find the team that lost the most number of matches in the entire IPL.



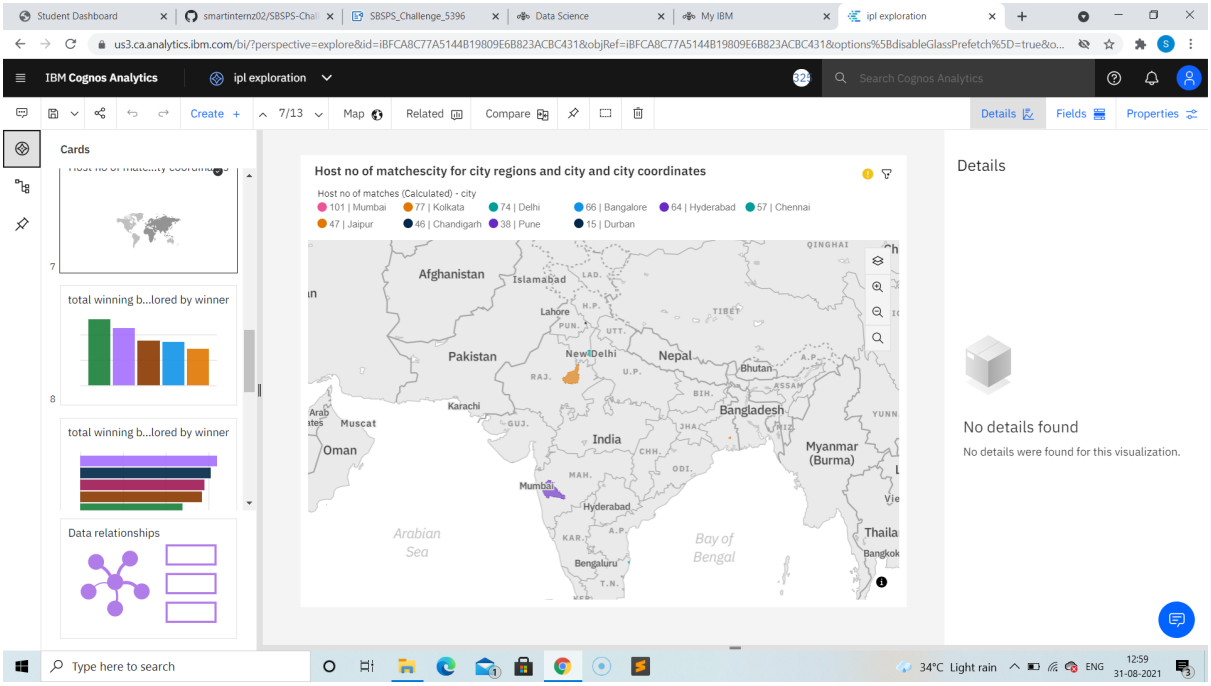
To find the player with the most player of the match awards.



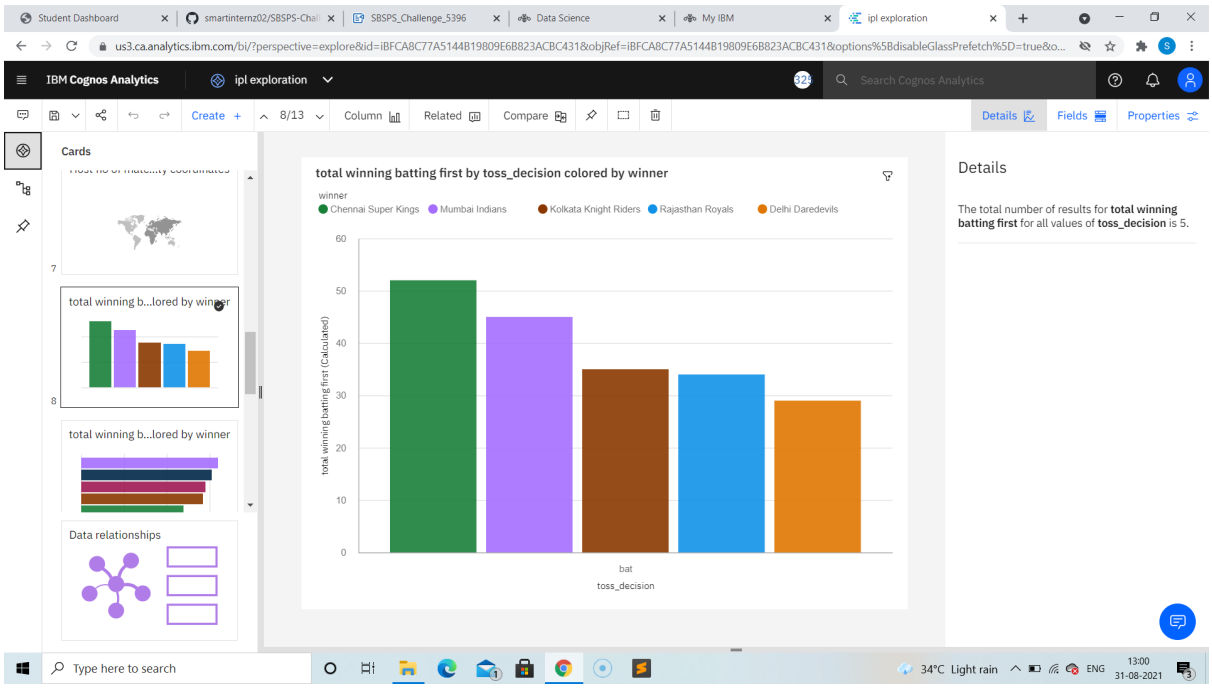
Does winning a toss increase the chances of victory.



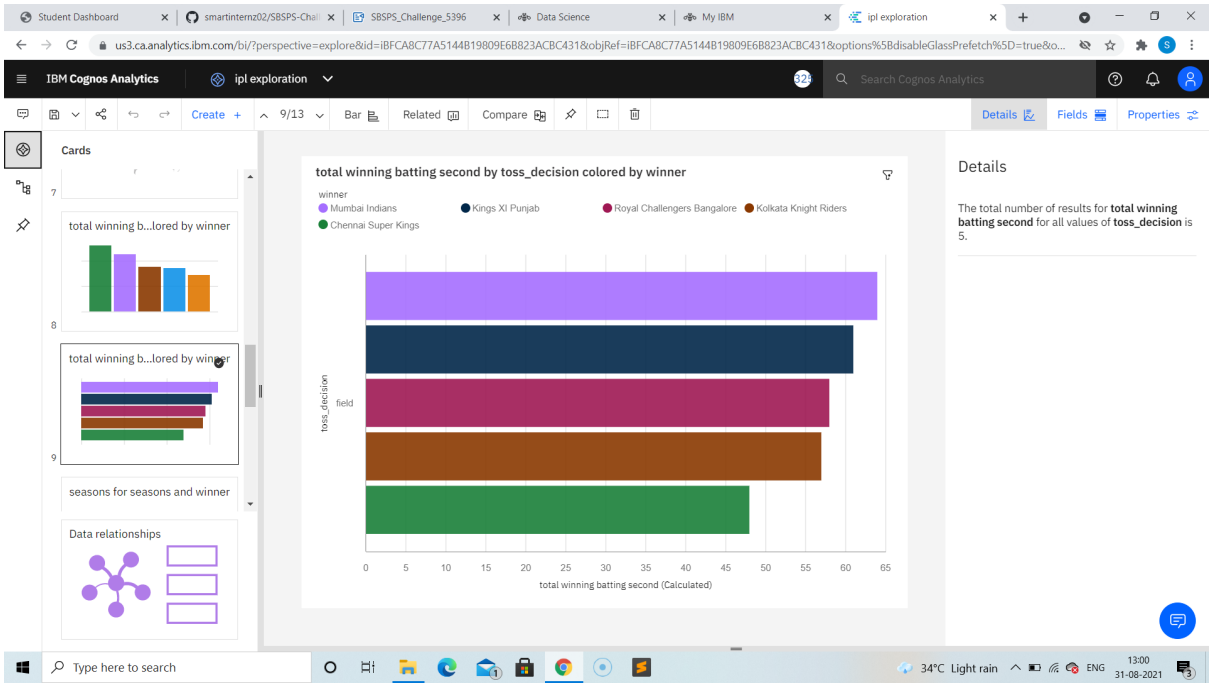
To find the city that hosted the maximum number of IPL matches



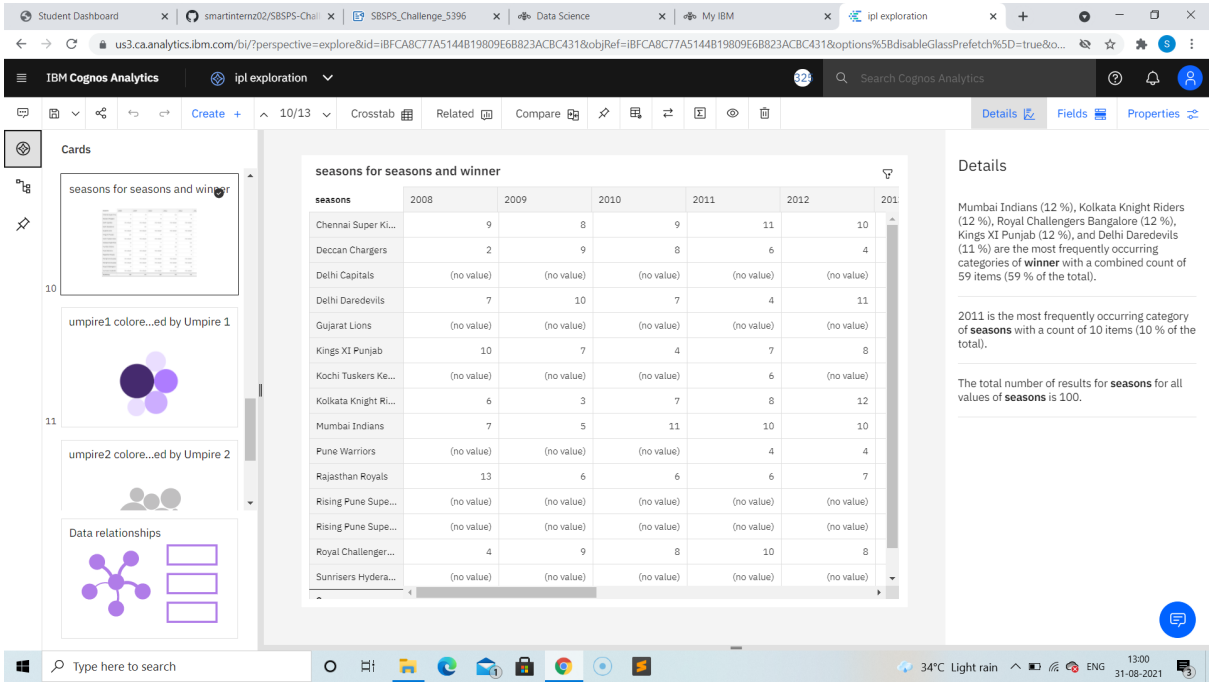
Which team won the most matches while batting first



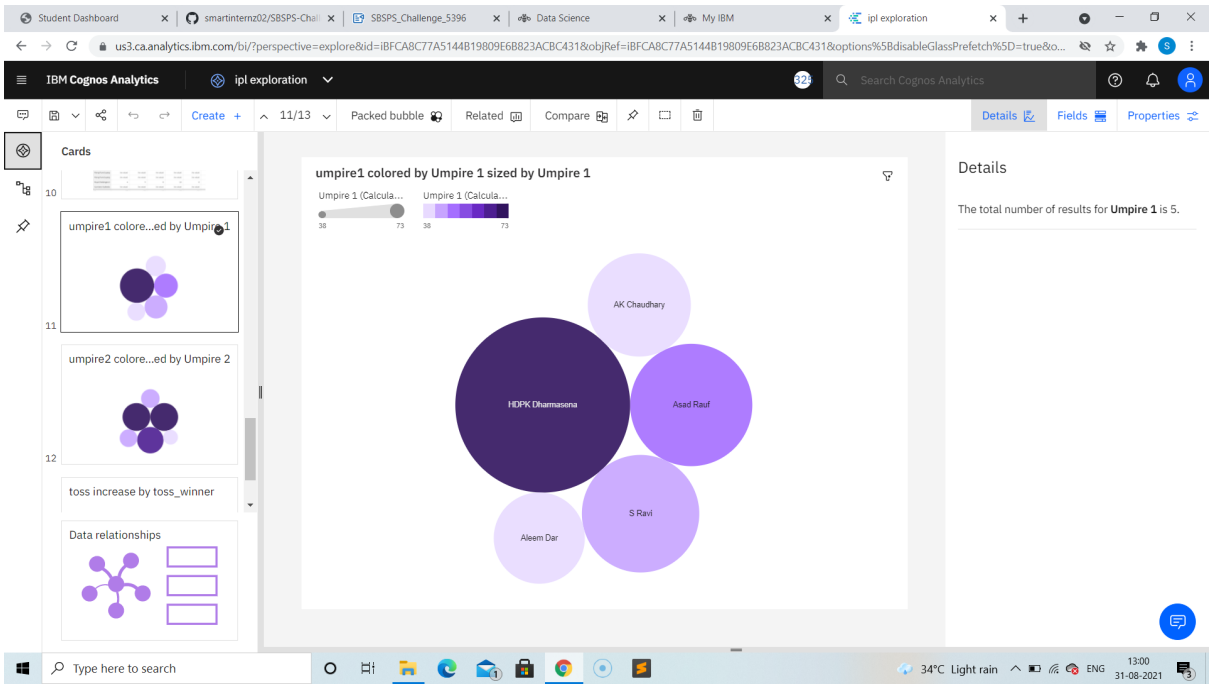
Which team won the most matches while batting second

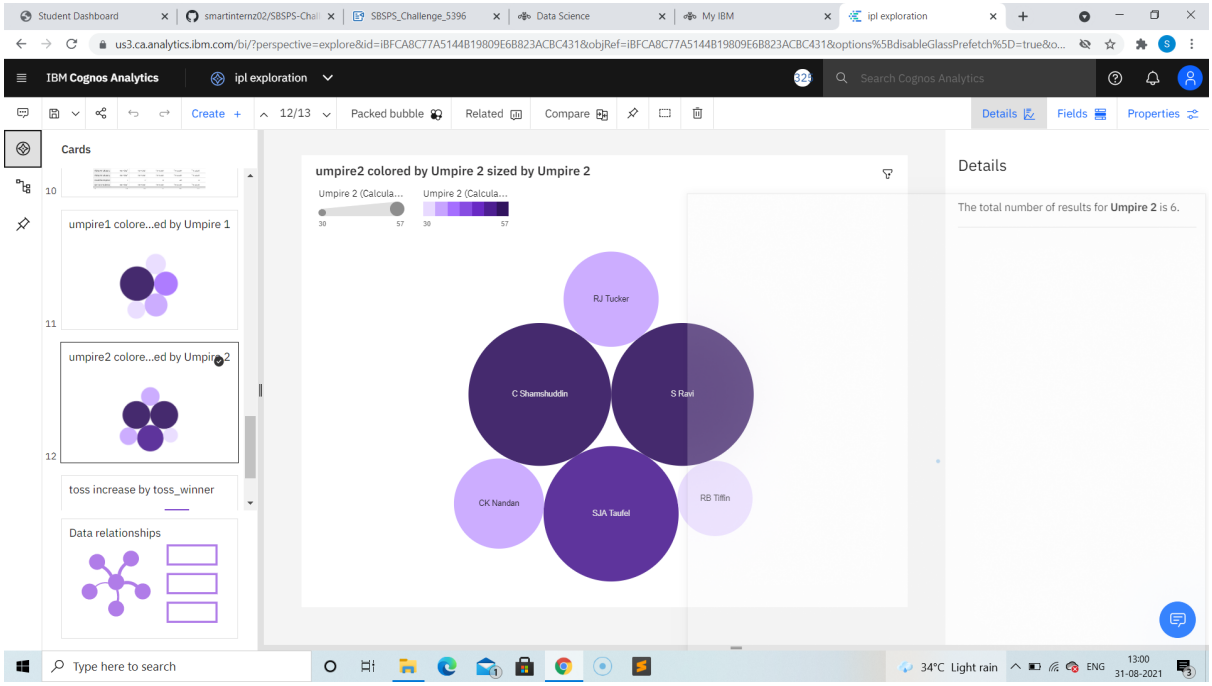


To find the most winning team for each season.

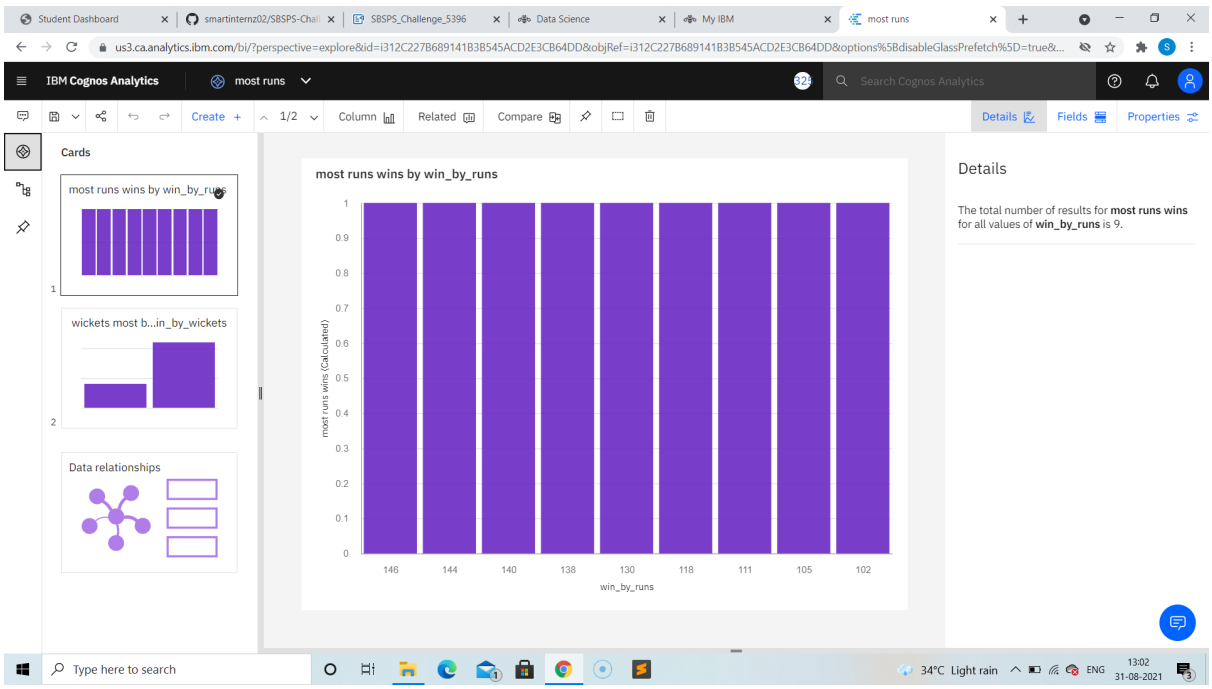


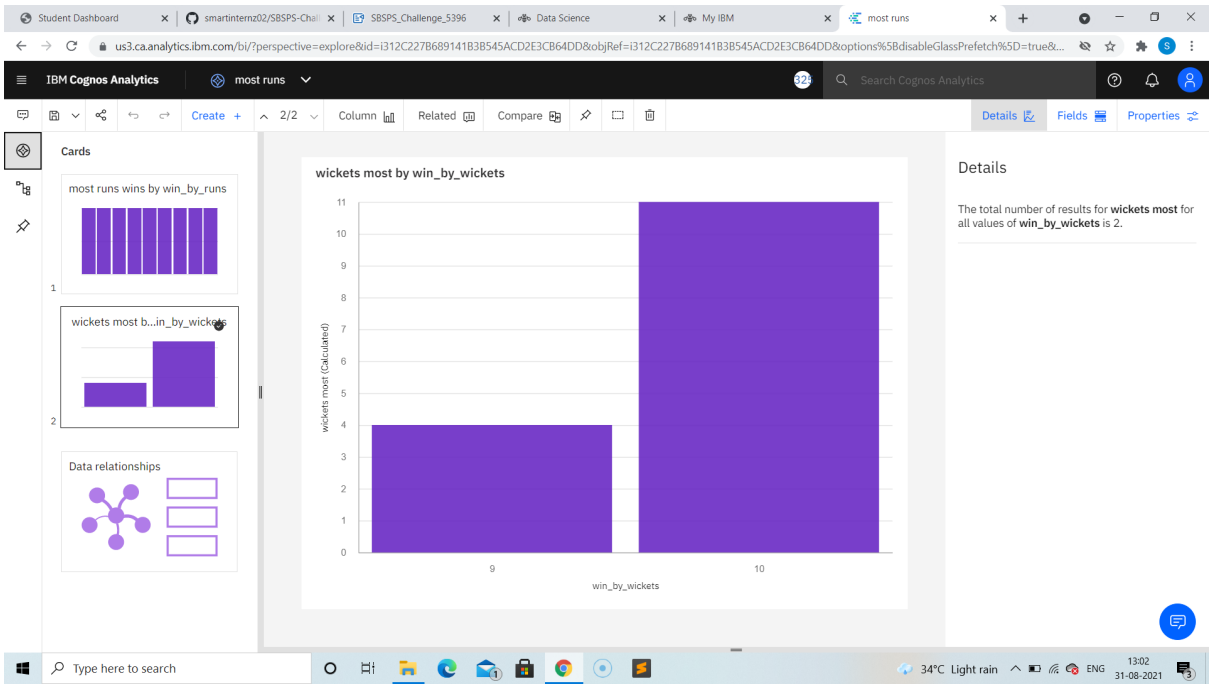
To find the on-field umpire with the maximum number of IPL matches.



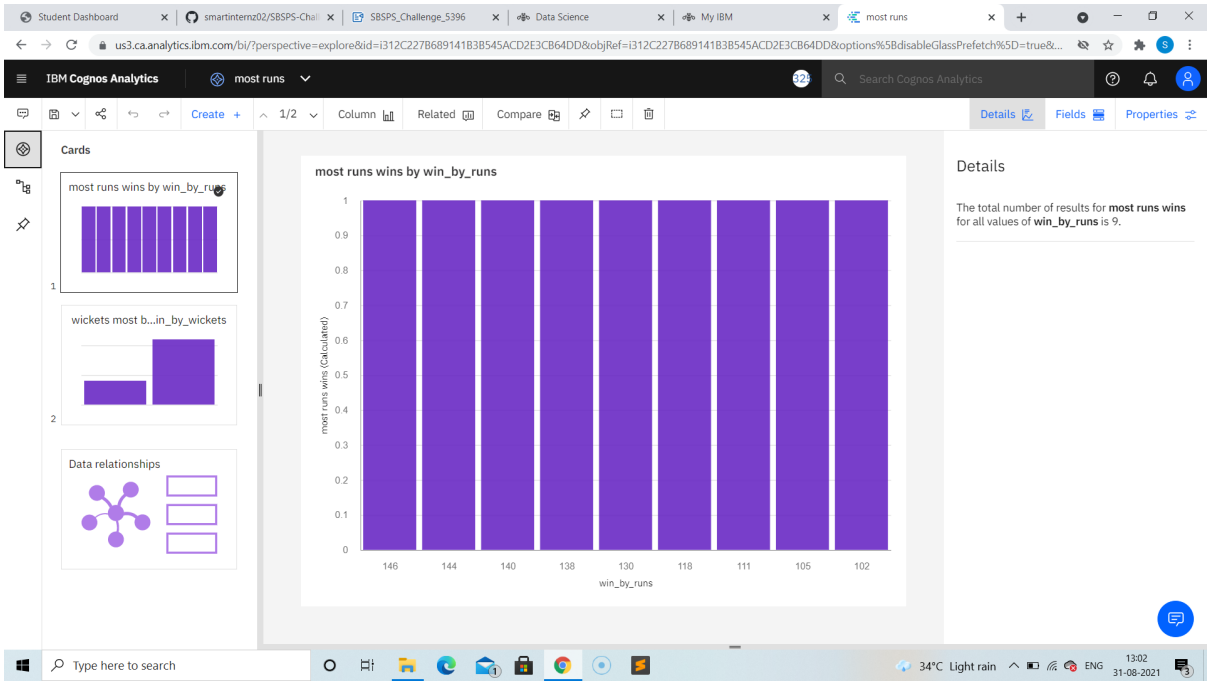


To find the biggest victories in IPL while defending a total and while chasing a total.





List of teams which have won matches by most runs cumulatively



ADVANTAGES & DISADVANTAGES:

The advantages of this solution is :
It is very easy to analyze the data and predict it
The dashboard creation is very easy and different types of graphs are available
The exploration of the dataset is also made simple

The disadvantages of this solution is :
The calculation which is made for the problem statement is sometimes felt difficult

APPLICATIONS:

The applications of this solution:
This is mainly applied in the field of the cricket.
There are many people who analyzes the cricket facts and information , for those people this solution is very useful.
It is also used in the other areas of sports.

CONCLUSION:

By working on this project , we are able to learn how to analyze the data and find the expected result for the problem statement . It is also useful to predict the future result of a match or the outcome.

FUTURE SCOPE:

As the future world is totally based on technology , we have to store lots of data . For this purpose only, the cloud computing is used . Moreover the analysis of data is very important to predict the future events , Like the scientiest who predict the third wave and second wave of covid. For this project , the enhancements can be made in future by visualizing it even more briefly.